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mission to read the present paper, Sir William R. Hamilton had kindly communicated to him the abstract and the proof sheets of a memoir by Professor De Morgan, on Triple Algebra. That paper contains the discussion of a system of triplets, which is most closely connected with the one now proposed: the only difference being that Professor De Morgan uses what are in fact new imaginary cube roots of *negative* unity.

Mr. Graves thinks that in the interpretation and generalization of his results he has met with greater success; but he fully concedes to Professor De Morgan the prior possession of what must be looked upon as fundamental in this theory, the conception of symbols which act upon each other in the same manner as the imaginary cube roots of unity. Mr. Graves also stated that his brother, John T. Graves, Esq., had anticipated him in the idea of using cube roots of positive unity in the constitution of algebraic triplets.

The remaining portion of the paper, having reference chiefly to the interpretation of the formulæ obtained in the multiplication of triplets, was postponed until the next meeting of the Academy.

Mr. George Yeates presented a tabular Return of the Observations made by him with Barometer, Thermometer, and Rain Gauge, at his residence, near Portobello, County of Dublin, during the year ending 31st December, 1844.—(See *Appendix*, No. II.)

DONATIONS.

An Essay on Aerial Navigation. By Joseph M'Sweeny, M. D. Presented by the Author.

Archæologia, Vol. XXX., and *Index* to Vols. XVI. to XXX., inclusive. Presented by the Society of Antiquaries of London.

J. H. R. Mott's Advice and Instructions for playing the

Piano with Expression and brilliant Execution. 2 vols. Presented by the Author.

Philosophical Transactions for 1844. Part 2. Presented by the Royal Society.

Memoires de l'Institut de France. (Morales et Politiques.)
Tome IV. Presented by the Institute.

Journal of the Royal Asiatic Society of Great Britain and Ireland. No. XV. Part 2. Presented by the Society.

Memoires Couronnés de l'Academie Royale de Bruxelles.
Tome XVI. (1843).

Recherches Statistiques, par A. Quetelet, H. M. R. I. Academy.

Observations des Phénomènes périodiques.

Resumé des Observations magnétiques. (1843).

Instructions pour l'Observation des Phénomènes périodiques.

Annales de l'Observatoire Royal de Bruxelles. (1844).

Annuaire de l'Observatoire Royal de Bruxelles. (1843–44).

Bulletin de l'Academie Royal de Bruxelles. (From 5th August, 1843, to 3rd August, 1844).

Presented by the Academy.

Laws of the Philosophical Society of Leeds. 1841.

Report of the Philosophical Society of Leeds. 1825–6, and 1831–1844.

An Account of an Egyptian Mummy, presented to the Museum of the Philosophical Society of Leeds.

Transactions of the Philosophical Society of Leeds. Vol. I. Part 1. Presented by the Society.

1. *Proceedings of the American Philosophical Society, from April to December, 1844.* Nos. 30 and 31.

2. *A Discourse in Commemoration of Peter S. Du Ponceau, LL.D., late President of the American Philosophical Society, delivered before the Society, on the 25th October, 1844.*
By Robley Dunglison, M.D. Presented by the Society.

1. *Report of Her Majesty's Commissioners of Inquiry into the State of the Law and Practice in respect to the Occupation of Land in Ireland.*

2. *Evidence taken before the Land Commission in Ireland.*
Parts 1 and 2. Presented by the Lord Lieutenant.

Contributions towards a Fauna and Flora of the County of Cork. By Dr. Harvey, J. D. Humphreys, and Dr. Power. Published by, and presented by the Cuvierian Society of Cork.

Obits and Martyrology of Christ Church. Presented by the Irish Archæological Society.

Facts connected with the social and sanitary Condition of the working Classes in the City of Dublin. 1841. By Thomas Willis, F. S. S. Presented by the Author.

Observations made at the Magnetic and Meteorological Observatory, at Toronto, in Canada. Vol. I. for 1840, 1841, 1842. Presented by Her Majesty's Government.